

Patent Abstracts of Japan

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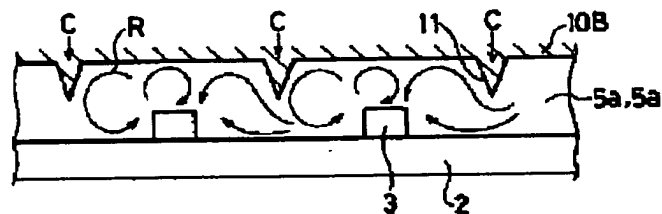
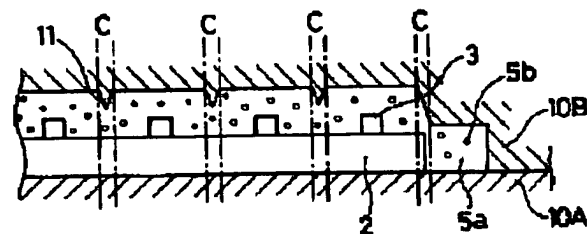
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APPLICATION NUMBER : 11008364

APPLICANT : STANLEY ELECTRIC CO LTD;

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TITLE : LIGHT EMITTING DIODE AND ITS
MANUFACTURE



ABSTRACT : PROBLEM TO BE SOLVED: To improve the productivity of light emitting diode by providing projections to a metallic mold to generate a turbulent flow and starting hardening of a mold resin prior to termination of the turbulent flow and by uniformizing the diffusion of a wavelength conversion agent.

SOLUTION: A substrate 2 is set in metallic molds 10A and 10B, and a mold resin 5a such as epoxy resin, etc., is injected into them, and the mold resin 5a is mixed with a wavelength conversion agent 5b. A projection 11 is provided to generate a turbulent flow R by a flow generating when the mold resin 5a is injected into the metallic molds 10A and 10B, and prior to termination of the turbulent flow R, the hardening of the mold resin 5a is started, thus uniformizing the diffusion of the wavelength conversion agent 5b. Thus, even one light emitting diode generates no uneven color, and no change in quality among a plurality of light emitting diodes occurs, thereby improving the productivity.

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